

REMARKS

INTRODUCTION

In accordance with the foregoing, claims 1-4, 11, 14-17 and 19-22 have been amended. Claims 13, 33 and 34 have been cancelled. New claims 35-48 have been added. Claims 1-4, 6, 7, 11, 14-17, 19-22, 24, 25 and 35-48 are pending and under consideration.

CLAIM REJECTIONS

Claims 1-4, 11, 13, 16, 17 and 19-22 were rejected under 35 USC 103(a) as being unpatentable over Corey et al. (US 5,703,655) (hereinafter "Corey") in view of Chen (US 2002/0136538) (hereinafter "Chen").

Claims 6, 7, 24, and 25 were rejected under 35 USC 103(a) as being unpatentable over Corey in view of Chen and further in view of Jain et al. (US 6,360,234) (hereinafter "Jain").

Claims 14 and 15 were rejected under 35 USC 103(a) as being unpatentable over Corey in view of Chen and further in view of Thomas et al. (US 6,847,395) (hereinafter "Thomas").

Claim 33 was rejected under 35 USC 103(a) as being unpatentable over Corey in view of Chen and further in view of Strubble et al. (US 5,483,278) (hereinafter "Strubble").

Claims 1-4, 6, 7, 33 and 34

Amended claim 1 recites: "...determining a category item for the A/V signal using feature information included in at least one of system information and additional information of the received A/V signal; storing search information about the A/V signal, the search information including the category item..." Support for this amendment may be found in at least paragraphs [0027] and [0030] of the specification and the claims as originally filed.

The Office Action relies on the primary reference Corey to show the feature of claim 1 of selecting a category item.

1:11-1:16 of Corey discusses the technical feature of retrieving desired video programming segments using closed caption data.

10:5-10:28 and the abstract of Corey discuss the retrieval services retrieving segments of stored video programs by title and headline. Specifically, 10:5-10:28 of Corey discuss the technical feature that a category may be chosen prior to choosing a particular requested title or headline, categories may be displayed on the monitor 84 so that a user may select the desired

category and subsequently have the requested video program retrieved and displayed on the monitor 84.

6:19-6:31 of Corey discusses that the video retrieval index generator 212 **partitions the closed caption text received into meaningful groups of text and outputs each such group**, hereinafter, denoted as an index text record or text record, to a file in the closed caption storage 72. Each index text record contains enough closed caption text describing the video segment from which the closed caption text was obtained so that there is a high probability that the **closed caption text can be used to retrieve the video segment**. That is, it is intended that the index text records be used for correlating a text-based query describing video data with user expectations as to the video segment that should be retrieved.

2:18-2:29 of Corey discusses that each video index record provides **access to a location** for retrieving the corresponding video segment, and thus, by providing one or more queries having a text-based description of video data, each **such query is compared to the index text records of the video index records** so that the desired video segments may be **located and retrieved**. Each such query may be used for **selecting video index records providing access to index text records satisfying the query** and subsequently utilizing references provided by the selected video index record, for locating **the video segment having the closed captioned data of the index text record**.

2:5-2:14 of Corey discusses that the **closed caption data is used for creating at least one video index record** for each video segment generated, wherein such a **video index record may be used for selecting and retrieving its corresponding video segment when appropriate selection criterion is provided**.

In particular, 2:5-2:29 of Corey discusses that a query is compared to the index text records of the video index records so that the **desired video segments may be located and retrieved**. The **video index records provide access to a location for retrieving a video segment**.

5:45-5:57 of Corey discloses that the descriptor obtained using the command illustrated in FIG. 6, the descriptor includes command text 700 as shown in FIG. 7 and a location 704 as shown in FIG. 7, the command text 700 identifies the video program from which the closed caption data is obtained, the location 704 is a location of the audio and video data stored on the video/audio storage 40. Thus, the descriptor designates that the formatted closed caption data

is for Channel 9 news that was broadcasted between 5:00-6:00 p.m. on Sep. 2, 1994 and the video data is stored in "i:9m9-2.mpg".

4:31-4:34 of Corey discloses a closed caption storage device 72 stores **only** the index recodes.

4:1-4:4 of Corey discloses a technical feature of decoding the closed caption data from the video signal.

However, the above contents of Corey disclose technical features of determining or extracting a category item from an audio/video signal using **feature information included in at least one of system information and additional information of the audio/video signal and storing search information including the category item.**

By contrast, claim 1 recites the technical feature of determining or extracting a category item from an audio/video signal using feature information included in at least one of system information and additional information of the audio/video signal, and storing search information including the category item, which is a feature not discussed in Corey.

Further, this feature is also not discussed in the secondary references Chen, Jain, Thomas and Strubbe.

Claims 33 and 34 have been cancelled. Claims 2-4, 6 and 7 depend on claim 1 and are therefore believed to be allowable for at least the foregoing reasons.

Withdrawal of the foregoing rejections is requested.

Claims 11 and 13-17

Amended claim 11 recites: "... a demultiplexing processor for demultiplexing one of the input A/V signal, extracting feature information in which a category of the input A/V signal is seized, and transmitting the input A/V signal to the first storage medium; a controller for determining and storing a category item for the input A/V signal based on the feature information provided from the demultiplexing processor and controlling the demultiplexing processor to record the input A/V signal to the first storage medium; and a second storage medium storing search information including the category item for the A/V signal, wherein the feature information is included in at least one of system information and additional information of the input A/V signal." Support for this amendment may be found in at least paragraphs [0027] and [0030] of the specification and the claims as originally filed.

Similar to the argument for claim 1, it is respectfully submitted that determining or extracting a category item from an audio/video signal using feature information included in at least one of system information and additional information of the audio/video signal, and storing search information including the category item is a feature not discussed in the primary reference Corey or the secondary references Chen, Jain, Thomas and Strubbe.

Claim 13 has been cancelled. Claims 14-17 depend on claim 11 and are therefore believed to be allowable for at least the foregoing reasons.

Withdrawal of the foregoing rejections is requested.

Claims 19-22, 24 and 25

Amended claim 19 recites: "...a determining unit determining a category item for the A/V signal using feature information included in at least one of system information and additional information of received A/V signal..." Support for this amendment may be found in at least paragraphs [0027] and [0030] of the specification and the claims as originally filed.

Similar to the argument for claim 1, it is respectfully submitted that determining or extracting a category item from an audio/video signal using feature information included in at least one of system information and additional information of the audio/video signal, and storing search information including the category item is a feature not discussed in the primary reference Corey or the secondary references Chen, Jain, Thomas and Strubbe.

Claims 20-22, 24 and 25 depend on claim 19 and are therefore believed to be allowable for at least the foregoing reasons.

Withdrawal of the foregoing rejections is requested.

ALLOWABLE SUBJECT MATTER

The Applicant acknowledges with appreciation that claim 34 has been found to contain allowable subject matter. Claim 34 has been cancelled.

NEW CLAIMS

New claims 35-48 have been added to present alternate recitation of the present invention. Support for these new claims may be found in at least paragraphs [0027] and [0030] of the specification and the claims as originally filed.

New independent claims 36-38, 40, 42-45 and 47 recite features relating to determining or extracting a category item from an audio/video signal using feature information included in at least one of system information and additional information of the audio/video signal, and storing

search information including the category item, which are features not discussed in the primary reference Corey or the secondary references Chen, Jain, Thomas and Strubbe. New dependent claims 35, 39, 41, 46 and 48 are dependent on one of claims 1, 11, 19, 45 and 47, respectively, and are therefore believed to be allowable for at least the foregoing reason.

No new matter has been added, and entry and consideration are respectfully requested.

CONCLUSION

Finally, if there are any formal matters remaining after this response, the Examiner is requested to telephone the undersigned to attend to these matters.

If there are any additional fees associated with filing of this Amendment, please charge the same to our Deposit Account No. 19-3935.

Respectfully submitted,

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